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UNITED STATES DEPARTMENT OF AGRICULTURE,

BUREAU OF CROP ESTIMATES.

WASHINGTON, D. C.

August, 1919.

PROJECT STATEMENT.

Fiscal Year 1921.

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ADMINISTRATION.

Object.

To administer the funds and organization and to supervise the activities of the Bureau.

Organization.

Office of Chief of Bureau.  
Office of Asst. Chief of Bureau.  
Office of Chief Clerk.  
Chief of Division of Crop Reports.  
Chief of Division of Crop Records and Research.

Function.

OFFICE OF CHIEF OF BUREAU.

Supervises administration of Bureau activities, decides program and policies of Bureau, conducts and signs Bureau correspondence, authorizations and requisitions, and represents Bureau on departmental committees and in dealing with the Secretary, Congress and public meetings.

OFFICE OF ASSISTANT CHIEF OF BUREAU.

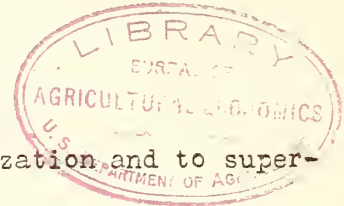
Assistant Chief acts as special adviser on all technical questions involving statistics or economics, and as Acting Chief in absence of the Chief. The office has charge of answering correspondence, preparation and custody of records used by the Crop Reporting Board, and decides administrative questions of a routine nature or not of sufficient importance to require action by the Chief of Bureau.

OFFICE OF CHIEF CLERK.

Executes administrative orders and instructions of Chief and Assistant Chief of Bureau, keeps records of bureau personnel, including appointments, promotions, demotions, separations from service, and leave of absence; keeps Bureau accounts and correspondence files; prepares requisitions, receives, issues, and accounts for, Bureau property; looks after assignment of space, office equipment, sanitation, telephone and telegraph service; and has charge of duplicating and mailing sections.

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CHIEF OF DIVISION OF CROP REPORTS.

In charge of force of statistical clerks, tabulators and computers which tabulates and summarizes schedule reports from voluntary crop reporters, and maintains lists of reporters.

CHIEF OF DIVISION OF CROP RECORDS AND RESEARCH.

In charge of force of clerks, statistical clerks and statistical scientists, published and unpublished records of United States and foreign crop and live stock statistics, and preparation of statistical tables and correspondence.

Value,

The crops and live stock production of the United States concerning which estimates are made by the Bureau of Crop Estimates have an aggregate value of 24 billion dollars and the total appropriation for such estimates in 1920 was \$371,102.

The cost of administration of the Bureau in 1920 is approximately \$24,160 for statutory salaries, and \$21,118 from the general expense fund for salaries, equipment, stationery, supplies, telegraph, freight and express, and miscellaneous expenses, or a total of \$45,278.

The estimates of appropriation for 1921 include \$37,460 for statutory salaries, and \$34,320 for the general expense fund, or a total of \$71,780, which is an increase of \$26,502 over 1920.

This increase provides on the statutory roll for the promotion of the Chief Clerk from \$1,800 to \$2,400, to correspond with salaries in other bureaus and increase in responsibilities of the position, and for an increase of three clerks at \$1,200 and ten clerks at \$1,000, made necessary by the increase of work.



CEREAL CROPS.

Corn, Wheat ( winter and spring), Oats, Barley, Buckwheat, Rye, Rice, and Grain Sorghum.

Objects.

To furnish dependable estimates concerning these crops for

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Seed and fertilizer requirements, supply, and quantities used.
- (5) Acreage sown in the fall to winter wheat, rye, and oats.
- (6) Acreage to be sown in spring before planting season opens ( intention of farmers to plant).
- (7) Progress of plowing and sowing.
- (8) Acreage sown to each crop.
- (9) Acreage of each principal variety.
- (10) Condition and forecast of yield and production monthly during growing season.
- (11) Extent of damage and loss from winter killing, plant diseases, insect pests and other causes.
- (12) Acreage abandoned.
- (13) Acreage harvested.
- (14) Yield per acre harvested.
- (15) Total production.
- (16) Grade or quality.
- (17) Commercial production, or marketable surplus, and stocks on farms.
- (18) Disposition of crop, i.e., portion marketed or to be marketed, quantity fed or consumed on farms, used for seed, for silage, pastured or plowed under.
- (19) Prices farmers receive.
- (20) Foreign crop situation.

Organization.

In each State a field agent, assistant field agent, and necessary clerical assistance, and a corps of selected voluntary crop reporters.

Five cereal crop specialists, one for wheat, rye and buckwheat, one for oats and barley, one for corn, one for grain sorghum, and one for rice.

General and special lists of voluntary crop reporters who will report directly to the Washington office.

Clerical force at the Washington office, part time.

Crop Reporting Board.





Function.

Field agents and assistant field agents, with headquarters in each of the States. to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation Required.

The value of each of the cereal crops produced annually, the amount available from the 1920 appropriation for estimating these crops, and the amounts required for detailed estimates by counties in accordance with the program in 1921, are shown in the following table:

Cereals.	1920 Allotment for State Estimates Only.	1921 Required for Enlarged Program.	Increase. Estimated as Necessary.	Value of Crops.
Lump Funds				
Corn	\$14,000	\$41,000	\$27,000	\$3,528,313,000
Wheat	14,000	41,000	27,000	1,874,623,000
Oats	8,000	23,000	15,000	1,092,423,000
Barley	1,900	7,000	5,100	235,269,000
Buckwheat	750	3,970	3,220	28,585,000
Rye	3,100	10,000	6,900	134,947,000
Rice	6,500	20,000	13,500	77,474,000
Grain Sorghum	<u>3,100</u>	<u>10,150</u>	<u>7,050</u>	<u>99,848,000</u>
	\$51,350	\$156,120	\$104,770	\$7,081,352,000
Statutory Salaries	<u>12,000</u>	<u>15,000</u>	<u>3,000</u>	
Total	\$63,350	\$171,120	\$107,770	\$7,081,352,000

The increase of \$107,770 is required to enable the Bureau to estimate the acreage and production by varieties, the acreage farmers intend to plant, acreage abandoned, marketable surplusses and stocks on farms, by counties, as well as by States. It will be utilized for making estimates for about 2,800 counties, for estimating quality, marketable surplus, and stocks on farms, and for special investigations, such as varieties grown, extent of damage by insect pests and plant diseases, utilization and disposition of crops, kind and amount of fertilizer used and required. The allotment will be used for payment of salaries of crop specialists, part payment of salaries of field agents and field clerks, travel expenses, stationery, rent of field offices, telephone and telegraph service, and for additional clerical assistance in Washington. The cost of this detailed crop reporting service is about 1/15 of a cent per acre of cereals harvested.



FIBER CROPS ( VEGETABLE)

Cotton, Hemp, and Flax.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage to be sown, estimate of farmer's intentions to plant before planting season opens.
- (5) Progress of plowing and planting.
- (6) Seed and fertilizer requirements, supply and quantity used.
- (7) Acreage planted, total.
- (8) Acreage of different varieties or types.
- (9) Acreage abandoned.
- (10) Condition and forecast of yield and production.
- (11) Extent of damage from insect pests, plant diseases and other causes.
- (12) Acreage harvested.
- (13) Yield per acre harvested.
- (14) Total production.
- (15) Grade or quality.
- (16) Marketable surplus, stocks on farms, disposition and utilization of crop.
- (17) Prices farmers receive.
- (18) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two fiber crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time,



### Function.

Field agents and assistant field agents, with headquarters in each of the States. to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations,

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.





Value of Crops and Estimate of Appropriation Required.

Fiber Crop	1920 Allotment For State Estimates Only.	1921 Required for Enlarged Program.	Increase Estimated as Necessary	Value of Crops.
Lump Funds.				
Cotton	\$42,783	\$55,580	\$12,797	\$1,587,445,000
Hemp	150	1,515	1,365	413,000
Flax	---	1,515	1,515	12,000
	\$42,933	\$58,610	\$15,677	\$1,587,870,000
Statutory Salaries	6,000	10,000	4,000	
Total	\$48,933	\$68,610	\$19,677	\$1,587,870,000

Of the fiber crops, hemp and flax for fiber are relatively unimportant in the United States and the increase of \$2,880 for these crops will be used for special investigations of acreage and production in the few States where grown and for reporting foreign production, supply, etc., of flax, hemp, jute, sisal, and other fibers. Cotton is the most important cash crop of the South and a much larger increase for estimating the crop would be justified. The \$12,797 increase for cotton will be used for making estimates by counties and for special investigations, such as fertilizer required and used, extent of damage from insect pests and plant diseases, area and production of principal varieties, and similar data.

This increase in appropriation will enable the Bureau to employ one more fiber crop specialist, partly pay the salaries of field agents and their clerks, travel expenses, stationery, rent, telephone and telegraph charges, and employ additional clerks in Washington.

The total amount required for estimating the cotton crop, valued in 1918 at more than 1,500 million dollars, is less than 1/6 cent per acre.



TOBACCO.

Objects.

To furnish dependable and timely estimates of the tobacco crop for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage to be sown, estimate of farmers' intentions to plant before planting season opens.
- (5) Progress of plowing and planting.
- (6) Seed and fertilizer requirements, supply and quantity used.
- (7) Acreage planted, total.
- (8) Acreage of different varieties or types.
- (9) Acreage abandoned.
- (10) Condition and forecast of yield and production.
- (11) Extent of damage from insect pests, plant diseases and other causes.
- (12) ~~Acreage~~ Harvested.
- (13) Yield per acre harvested.
- (14) Total production.
- (15) Grade or quality.
- (16) Marketable surplus, stocks on farms, disposition and utilization of crop.
- (17) Prices farmers receive.
- (18) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two tobacco crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



## Function.

Field agents and assistant field agents, with headquarters in each of the States. to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crop and Estimates of Appropriation Required.

Tobacco	1920 Allotment for State Estimates Only	1921 Required for Enlarged Program.	Increase Estimated as Necessary.	Value of Crops.
Lump Fund	\$7,500	\$17,488	\$9,988	
Statutory Salaries	<u>4,760</u>	<u>4,760</u>	<u>-----</u>	
Total	\$12,260	\$22,248	\$9,988	

This crop is valued at 375 million dollars. The present allotment is insufficient and the increase indicated will enable the Bureau to greatly improve the service by making estimates of acreage and production by counties, marketable surplus and stocks on farms, and by making special investigations called for from time to time. This increase would provide for one additional tobacco crop specialist and his travel expenses and contribute to the expense of maintaining field agents' offices in each State where tobacco is grown.





POTATOES ( WHITE AND SWEET )

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Each district of commercial importance.
- (5) Acreage intended to be planted, before planting season opens.
- (6) Progress of plowing and planting.
- (7) Fertilizer requirements, supply and quantity used.
- (8) Acreage planted to early or first crop.
- (9) Acreage planted to late or main crop.
- (10) Acreage abandoned.
- (11) Condition and forecast of yield and production.
- (12) Extent of damage from insect pests and plant diseases.
- (13) Acreage harvested.
- (14) Yield per acre harvested.
- (15) Total production.
- (16) Acreage and production of different varieties.
- (17) Grade or quality.
- (18) Marketable surplus, stocks on farms, sale, disposition and utilization of crop.
- (19) Shrinkage or loss in storage on farms.
- (20) Prices farmers receive.
- (21) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Three potato crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation Required.

	1920 Allotment for State Estimates Only.	1921 Required for Enlarged Program.	Increase Estimated as Necessary.
Lump Funds	\$14,400	\$39,426	\$25,026
Statutory Salaries	<u>8,520</u>	<u>8,520</u>	<u>-- --</u>
Total	\$22,920	\$47,946	\$25,026

The cost of producing these crops, valued in 1918 at 595 million dollars, is great, because of the high cost of seed, fertilizer and labor required. Both are subject to serious damage from plant diseases and insect pests. Both are perishable. Growers often suffer great losses in marketing. Both products are important to consumers. It is highly important, therefore, that estimates shall be available of present and prospective supply and that marketable surpluses and stocks on farms shall be reported periodically for important districts of commercial production.

To supply this service the Bureau will need a total allotment of \$47,946 for 1921, or an increase of \$25,026. This amount will be expended for estimating acreage and production of total crop by counties, estimating marketable surplus, and for special investigations. Three potato crop specialists will be employed to devote their entire time to these crops and supplement and coordinate the work of field agents on potatoes in all the States. The allotment estimated for this improved service, would cost slightly less than one cent per acre.

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SUGAR CROPS.

Beets, Cane, Maple, Sorghum, and Honey.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage intended to be planted before the season opens, in case of beets, cane and sorghum.
- (5) Progress of plowing and planting.
- (6) Seed and fertilizer requirements, supply and quantities used.
- (7) Acreage abandoned.
- (8) Condition and forecast of yield.
- (9) Extent of damage from plant diseases, insect pests or storms.
- (10) Acreage harvested.
- (11) Yield per acre.
- (12) Total production.
- (13) Acreage and production of different varieties.
- (14) Grade or quality.
- (15) Marketable surplus, stocks on farms, disposition and utilization of crop.
- (16) Number of sugar maples available for tapping.
- (17) Condition and prospects.
- (18) Number tapped.
- (19) Yield per tree.
- (20) Total production.
- (21) Prices growers receive.
- (22) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Three sugar crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.





## Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation Required.

|                       | 1920<br>Allotment<br>for State<br>Estimates<br>Only. | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary. |
|-----------------------|--|--|--|
| Lump Fund             | \$2,975  | \$19,458                                     | \$16,483                               |
| Statutory<br>Salaries | <u>4,360</u>   | <u>4,760</u>                                 | <u>400</u>                             |
| Total                 | 7,335  | 24,218                                       | 16,883                                 |

The allotment for estimating these five crops, the production of which in 1918 was estimated at approximately 157 million dollars, should be increased to provide for the employment of one corn and sorghum specialist, one sugar beet specialist, and one honey and maple sugar specialist, necessary travel and station expenses, and additional clerk hire.. This increase in organization is necessary before the Bureau can attempt to make county estimates and detailed reports of marketable surpluses.



LIVE STOCK.

Horses, Mules, Beef and Dairy Cattle, Sheep, Goats, Swine, Poultry, and live stock products.

Objects.

To furnish dependable and timely estimates concerning live stock production on farms for:

- (1) The United States.
- (2) Each State.
- (3) Each County.
- (4) Number of each kind of live stock  
January 1, each year.
- (5) Number of each sex in each class.
- (6) Number of each age group to show  
breeding capacity.
- (7) Number of each class of pure bred  
animals.
- (8) Monthly estimates of changes in  
total number of each kind.
- (9) Number of animals bred.
- (10) Number of animals born.
- (11) Number of animals slaughtered.
- (12) Animal losses from disease, ex-  
posure, and other causes.
- (13) Number of animals sold.
- (14) Feed supply available and pros-  
pective, including forage,  
number of silos and quantity  
of silage, condition and  
carrying capacity of ranges  
and pastures.
- (15) Condition of live stock.
- (16) Meat production, including number  
of meat animals on feed.
- (17) Dairy production, including milk,  
butter and cheese.
- (18) Poultry production, including eggs.
- (19) Wool production.
- (20) Hide production.
- (21) Prices received by growers.
- (22) Foreign situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary reporters in each State reporting to the field agent.

Seven live stock specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.





Value of Crops and Estimate of Appropriation Required.

| Livestock             | 1920<br>Allotment | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated<br>as<br>Necessary. | Value.                      |
|-----------------------|-------------------|--|---|-----------------------------|
| Lump Fund.            |                   |  |   |                             |
| Horses and mules      | \$1,560           | \$12,000                                     | \$10,440                                  | \$2,788,476,000             |
| Dairy cattle          | 3,575             | 55,000                                       | 51,425                                    | 1,836,055,000               |
| Dairy products        | 1,600             | 15,000                                       | 13,400                                    | 1,000,000,000               |
| Other cattle          | 3,575             | 60,000                                       | 56,425                                    | 1,960,670,000               |
| Sheep                 | 11,000            | 30,000                                       | 19,000                                    | 579,016,000                 |
| Wool                  | .....             | 5,660  | 5,660                                     | 145,467,000                 |
| Swine                 | 16,000            | 60,000                                       | 44,000                                    | 1,665,987,000               |
| Poultry and eggs      | <u>400</u>        | <u>20,000</u>                                | <u>19,600</u>                             | <u>1,000,000,000</u>        |
|                       | 37,710            | 257,660                                      | 219,950                                   | 10,975,671,000              |
| Statutory<br>Salaries | <u>5,000</u>      | <u>25,000</u>                                | <u>20,000</u>                             | <u>                    </u> |
| Total                 | 42,710            | 282,660                                      | 239,950                                   | 10,975,671,000              |

The total estimated value of live stock and live stock products on farms is not far from 11 billion dollars, and of total farm sales more than 50 per cent are sales of live stock and live stock products. Yet during the fiscal year 1920 the Bureau of Crop Estimates has only \$42,710 for estimating this great industry, sufficient only to estimate merely the total number of each kind of live stock (except poultry), the number of brook sows, losses from disease and exposure, prices, and a monthly index of changes in number. No attempt has been made or can be made without additional funds, to estimate dairy and poultry production, which exceeds two billion dollars annually. The live stock industry represents an enormous investment of capital and labor; it involves the meat, dairy and egg supply of the country; it is essential to economical farm management, crop rotations, and the maintenance of soil fertility; and in the case of beef and dairy cattle is of slow growth and can not readily be reestablished if, because of unprofitable returns, numbers are reduced below normal requirements. The entire industry is built up and maintained on a long time program. Intelligent and profitable live stock production and marketing programs can not be made without accurate, dependable and timely estimates. These should be as complete, in as much detail, and issued with the same frequency as crop reports. To provide such a service will require an appropriation of about \$282,660. This will enable the Bureau to employ seven live stock specialists to supplement and coordinate the work of the State field agents, and make the necessary additions to the clerical force.



Of the total increase of \$239,950, \$219,950 will be under general expenses. Nearly all of this sum will be expended in the field making detailed county and State estimates, month by month. Approximately \$20,000 of the allotment from General Expenses and an equal amount in Statutory salaries will be required in Washington for the purpose of employing competent live stock experts and statistical clerks for tabulating, correlating and analyzing the data received from the field, and giving effective publicity to same.

The cost of this project would be approximately 22/10,000 of one per cent of the value of live stock and live stock products.



HAY AND FORAGE CROPS.

Grass, Clover, Alfalfa, Millet and other Tame  
and Wild Hay, Forage Crops and Pastures.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage to be sown, estimate of farmers' intentions to plant before planting season opens.
- (5) Progress of plowing and planting.
- (6) Seed and fertilizer requirements, supply and quantity used.
- (7) Acreage planted, total.
- (8) Acreage of different varieties or types.
- (9) Acreage abandoned.
- (10) Condition and forecast of yield and production.
- (11) Extent of damage from insect pests, plant diseases and other causes.
- (12) Acreage harvested.
- (13) Yield per acre harvested.
- (14) Total production.
- (15) Grade or quality.
- (16) Marketable surplus, stocks on farms, disposition and utilization of crop.
- (17) Prices farmers receive.
- (18) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two forage crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.









Value of Crops and Estimate of Appropriation Required.

| Hay Crops             | 1920<br>Allotment<br>for State<br>Estimates<br>Only. | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary. | Value of Crop.     |
|-----------------------|--|--|--|--------------------|
| Lump Funds.           |  |  |  |                    |
| Pastures              | \$ 500   | \$ 5,000                                     | \$ 4,500                               | \$1,000,000,000    |
| Grass                 | 1,400  | 15,400                                       | 15,000                                 | 438,122,000        |
| Clover                | 1,600  | 11,800                                       | 10,200                                 | 606,068,000        |
| Alfalfa               | 1,600  | 11,800                                       | 10,200                                 | 299,383,000        |
| Millet & Other        |  |  |  |                    |
| Tame Hay              | 400  | 4,000  | 3,600                                  | 178,899,000        |
| Wild Hays             | <u>900</u>   | <u>5,692</u>                                 | <u>4,792</u>                           | <u>219,185,000</u> |
|                       | 6,400  | 54,692                                       | 48,292                                 | 2,741,657,000      |
| Statutory<br>Salaries | <u>7,140</u>   | <u>7,140</u>                                 |  |                    |
| Total                 | 13,540   | 61,832                                       | 48,292                                 | 2,741,657,000      |

In 1920 the allotment was only \$13,540 for estimating hay crops grown on 71 million acres and valued in 1918 at approximately \$1,741,657,000. This allotment should be increased to at least \$61,832 to enable the Bureau to employ two hay crop specialists to devote their entire time to estimating these important crops, which are essential to the live stock industry. The increase required will be expended for estimating acreage and production of hay by counties, estimating marketable surplus and stocks on farms, for special investigations. The total cost of this improved service would be about 1/14 cent per acre, about 3/100 of one per cent of the total of the hay and forage crops.



LEGUMES.

Beans ( dry, soy, and velvet), Cowpeas, and Peanuts.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage to be sown, estimate of farmers' intentions to plant before planting season opens.
- (5) Progress of plowing and planting.
- (6) Seed and fertilizer requirements, supply and quantities used.
- (7) Acreage planted, total.
- (8) Acreage of different varieties or types.
- (9) Acreage abandoned.
- (10) Condition and forecast of yield and production.
- (11) Extent of damage from insect pests, plant diseases and other causes.
- (12) Acreage harvested.
- (13) Yield per acre harvested.
- (14) Total production.
- (15) Grade or quality.
- (16) Marketable surplus, stocks on farms, disposition and utilization of crop.
- (17) Prices farmers receive.
- (18) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Four legume crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States. to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

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The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation Required.

| Legumes               | 1920<br>Allotment<br>for State<br>Estimates<br>Only. | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary. | Value of Crop.    |
|-----------------------|--|--|--|-------------------|
| Lump Funds.           |  |  |  |                   |
| Beans, dry            | \$1,500  | \$6,000                                      | \$4,500                                | \$93,639,000      |
| " soy                 | 250  | 4,000  | 3,750                                  | 10,000,000        |
| " velvet              | 300  | 4,000  | 3,700                                  | 20,000,000        |
| Cowpeas               | 800  | 4,000  | 3,200                                  | 27,000,000        |
| Peanuts               | <u>700</u>   | <u>10,182</u>                                | <u>9,482</u>                           | <u>95,829,000</u> |
|                       | 3,550  | 28,182                                       | 24,632                                 | 246,468,000       |
| Statutory<br>Salaries | <u>7,140</u>   | <u>7,140</u>                                 | _____                                  | _____             |
| Total                 | 10,690   | 35,322                                       | 24,632                                 | 246,468,000       |

For estimating these important food and feed crops, valued at nearly 250 million dollars in 1918, the Bureau has available only \$10,690 for the fiscal year 1920, only \$3,550 of which is available for important field work. The rapid development of soy beans, velvet beans, and peanuts, and the fact that these crops and cowpeas are grown partly for the beans and peas, partly for hay and pasture and partly for soil improvement, and the further fact that they are intertilled, companion or succession crops, make them extremely difficult to estimate. Yet they are crops of increasing importance. At least \$28,182 is required to estimate them, or an increase in the allotment of \$24,632, all of which will be expended in the field work necessary in connection with making estimates of acreage and production by counties, estimating commercial production, or marketable surplus and stocks on farms, and for special investigations. This increase would enable the Bureau to employ four crop specialists, two of whom would devote their entire time to estimating bean crops, and two peanuts and cowpeas. This enlarged service would cost approximately 1/2 cent per acre of the crops grown.





FRUIT CROPS.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each County.
- (4) Districts of principal commercial production.
- (5) Acreage or number of trees of different ages.
- (6) Acreage or number of trees of different varieties.
- (7) Fertilizer, insecticide, and fungicide requirements, supply, and quantities used.
- (8) Progress of orchard work, pruning, cultivation, spraying, and harvesting.
- (9) Condition and forecast of production.
- (10) Damage from storms, freezes, insects and diseases.
- (11) Total production.
- (12) Commercial production, marketable surplus and stocks on farms, disposition and utilization of crop.
- (13) Production by varieties.
- (14) Grade or quality.
- (15) Prices growers receive.
- (16) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Seven fruit crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation Required.

| Fruits.  | 1920<br>Allotment<br>for State<br>Estimates<br>Only. | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary. | Value of Crop. |
|--|--|--|--|----------------|
| Lump Fund.                                     |  |  |  |                |
| Apples   | \$12,400   | \$20,600                                     | \$8,200                                | \$229,990,000  |
| Pears  | 2,400  | 5,700  | 3,300                                  | 14,200,000     |
| Quinces  | .....  | 1,000  | 1,000                                  | 500,000        |
| Peaches  | 4,000  | 14,000                                       | 10,000                                 | 61,587,000     |
| Apricots                                       | 400  | 2,000  | 1,600                                  | 5,000,000      |
| Plums & Prunes                                 | .....  | 3,000  | 3,000                                  | 15,000,000     |
| Cherries                                       | .....  | 2,000  | 2,000                                  | 15,000,000     |
| Citrus   | 1,300  | 3,800  | 2,500                                  | 119,880,000    |
| Grapes   | .....  | 7,000  | 7,000                                  | 25,000,000     |
| Strawberries                                   | 4,100  | 5,100  | 1,000                                  | 25,000,000     |
| Raspberries                                    | .....  | 1,500  | 1,500                                  | 6,000,000      |
| Blackberries,<br>Dewberries,<br>& Loganberries | .....  | 1,500  | 1,500                                  | 5,000,000      |
| Currants                                       | .....  | 1,000  | 1,000                                  | 1,000,000      |
| Gooseberries                                   | .....  | 1,000  | 1,000                                  | 750,000        |
| Cranberries                                    | 625  | 1,200  | 575                                    | 3,794,000      |
| Figs   | .....  | 500  | 500                                    | 1,000,000      |
| Pineapples                                     | .....  | 500  | 500                                    | 1,000,000      |
| Olives   | .....  | 500  | 500                                    | 600,000        |
| Other Fruits                                   | .....  | 2,516  | 2,516                                  | 100,000        |
|  | 25,225   | 74,416                                       | 49,191                                 | 530,401,000    |
| Statutory<br>Salaries                          | <u>7,000</u>   | <u>12,020</u>                                | <u>5,020</u>                           |                |
| Total  | 32,225   | 86,436                                       | 54,211                                 | 530,401,000    |

Of these important fruit crops, valued in 1918 at more than 500 million dollars, the Bureau had only \$32,225 in the fiscal year 1920 with which to estimate apples, pears, peaches, citrus fruits and cranberries. No other fruits were reported quantitatively. Yet no feature of the Bureau's work has been more successful or won more commendation than its commercial estimates of the apple and peach crops. The same system of intensive surveys of districts of principal commercial production and commercial estimating should be applied to all fruit crops. For this purpose four additional fruit crop specialists are required with a sufficient allowance for necessary travel. The total allotment for this project should not be less than \$86,436, or an increase of \$54,211, the greater part of which would be expended for commercial estimating, and approximately \$3,000 for special investigations. The total cost of this project on the enlarged basis would be about 1 cent for every 6,000 dollars worth of product.



NUT CROPS.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each County.
- (4) Districts of principal commercial production.
- (5) Acreage or number of trees of different ages.
- (6) Acreage or number of trees of different varieties.
- (7) Fertilizer, insecticide and fungicide requirements, supply, and quantities used.
- (8) Progress of orchard work, pruning, cultivation, spraying, and harvesting.
- (9) Condition and forecast of production.
- (10) Damage from storms, freezes, insects and diseases.
- (11) Total production.
- (12) Commercial production, marketable surplus and stocks on farms, disposition and utilization of crop.
- (13) Production by varieties.
- (14) Grade or quality.
- (15) Prices growers receive.
- (16) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two nut crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.





## Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation.

| Nut Crops.            | 1920<br>No Allotment | 1921<br>Required for<br>Program. | Value of Crop.              |
|-----------------------|----------------------|----------------------------------|-----------------------------|
| Lump Fund.            |                      |                                  |                             |
| Walnuts               | .....                | \$4,000                          | \$2,500,000                 |
| Pecans                | .....                | 4,000                            | 2,500,000                   |
| Almonds               | .....                | 3,000                            | 1,000,000                   |
| Other nuts            | .....                | <u>1,480</u>                     | <u>750,000</u>              |
|                       | .....                | 12,480                           | 6,750,000                   |
| Statutory<br>Salaries | .....                | <u>2,380</u>                     | <u>                    </u> |
| Totals                | .....                | 14,860                           | 6,750,000                   |

No allotment of funds for estimating nut crops has been made in the past, and yet these crops are of growing importance. Large commercial plantings have been made of pecans in the south and of walnuts and almonds on the Pacific coast. Other nut crops, such as the hickory, hazel, filbert, pistachio, cocoa, leitchi, which are partly wild and partly cultivated, are likely to become of increasing importance in future. Provision should therefore be made for estimating them. The proposed allotment of \$14,860 would enable the Bureau to keep two nut crop specialists in the field, who would secure the cooperation of growers and growers' organizations, handlers, and state officials, and coordinate the work of field agents, in making an intensive survey of producing areas, and regular reports of condition and present or prospective yield. The proposed allotment represents a cost of 22/100 of one per cent of the estimated value of the nut crops.



TRUCK CROPS.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage to be sown, estimate of farmers' intentions to plant before planting season opens.
- (5) Progress of plowing and planting.
- (6) Seed and fertilizer requirements, supply, and quantity used.
- (7) Acreage planted, total.
- (8) Acreage of different varieties or types.
- (9) Acreage abandoned.
- (10) Condition and forecast of yield and production.
- (11) Extent of damage from insect pests, plant diseases and other causes.
- (12) Acreage harvested.
- (13) Yield per acre harvested.
- (14) Total production.
- (15) Grade or quality.
- (16) Marketable surplus, stocks on farms, disposition and utilization of crop.
- (17) Prices farmers receive.
- (18) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corp of voluntary crop reporters in each State reporting to the field agent.

Seven truck crop specialists, and 40 paid local reporters.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States. to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.





Value of Crops and Estimate of Appropriation.

| Truck Crops.      | 1920<br>Allotment. | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary | Value of Crop.   |
|-------------------|--------------------|--|---------------------------------------|------------------|
| Lump Fund.        |                    |  |                                       |                  |
| Tomatoes          | \$2,550            | \$5,000                                      | \$2,450                               | \$51,060,000     |
| Lettuce           | 1,300              | 3,000  | 1,700                                 | 26,169,000       |
| Celery            | 1,300              | 2,500  | 1,200                                 | 25,746,000       |
| Onions            | 8,100              | 10,000                                       | 1,900                                 | 16,268,000       |
| Cabbage           | 8,900              | 11,000                                       | 2,100                                 | 14,818,000       |
| Cantaloupes       | 2,025              | 3,025  | 1,000                                 | 15,672,000       |
| Sweet Corn        | .....              | 1,900  | 1,900                                 | 8,000,000        |
| Watermelons       | 2,025              | 3,025  | 1,000                                 | 6,196,000        |
| Beans, Green      | .....              | 1,750  | 1,750                                 | 3,500,000        |
| Peas, "           | .....              | 1,750  | 1,750                                 | 3,500,000        |
| Cucumbers         | .....              | 1,750  | 1,750                                 | 3,500,000        |
| Asparagus         | .....              | 1,650  | 1,650                                 | 3,000,000        |
| Other vegetables. | .....              | <u>2,708</u>                                 | <u>2,708</u>                          | <u>8,000,000</u> |
|                   | 26,200             | 49,058                                       | 22,858                                | 185,429,000      |
| Statutory         |                    |  |                                       |                  |
| Salaries          | <u>9,200</u>       | <u>15,000</u>                                | <u>5,800</u>                          |                  |
| Total             | 35,400             | 64,058                                       | 28,658                                | 185,429,000      |

This project has been developed since 1914 and has fully demonstrated its value in connection with a few of the more important truck crops. It should now be extended to include all truck crops. These crops are intensive, highly specialized and perishable. They require a heavy investment in high priced land, seed, fertilizer, and labor. In addition to the hazards of the weather, insect pests and plant diseases, heavy losses are sustained from lack of transportation, glutted markets and faulty distribution. It is essential that dependable estimates of acreage, condition, present and prospective marketable supply, shall be made available for all these crops by a weekly Truck Crop News Service. The aggregate value of truck crops is in excess of 200 million dollars annually and they form an essential part of the diet of the entire country. The proposed allotment for this project will enable the Bureau not only to give the field agents additional facilities for estimating truck crops in their states, but to employ one additional truck crop specialist and forty local reporters in important trucking sections, and use the telegraph more freely. The increase will be used for estimating truck crops by counties, commercial surpluses, and for special investigations. The total allotment for this project is less than 4/100 of one per cent of the aggregate annual value of truck crops.



SEED CROPS.  
Field and Garden.

Objects.

To furnish dependable and timely estimates concerning field and garden seed crops for.

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage to be planted, i.e., contracts of growers, or intention of growers, to plant in advance of planting season.
- (5) Progress of plowing and planting.
- (6) Acreage planted, total of each kind.
- (7) Acreage of different varieties or types.
- (8) Acreage abandoned.
- (9) Condition and forecast of yield and production.
- (10) Extent of damage from insect pests, plant diseases, and other causes.
- (11) Acreage harvested.
- (12) Yield per acre harvested.
- (13) Total production by kinds and principal varieties.
- (14) Grade or quality.
- (15) Marketable surplus and stocks in growers' hands.
- (16) Prices growers receive.
- (17) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two seed crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations, to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation.

| Seed Crops. | 1920<br>Allotment<br>for State<br>Estimates<br>Only. | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary. |
|-------------|--|--|--|
| Lump Fund   | \$ 500...  | \$17,650                                     | \$17,650                               |
| Statutory   |  |  |  |
| Salaries    | <u>500</u>   | <u>1,500</u>                                 | <u>1,000</u>                           |
| Total       | 500  | 19,150                                       | 18,650                                 |

Crops grown especially for seed, mainly garden, truck, and forage crop seed, have an estimated value in excess of 35 million dollars annually. If to this be added the field seed for the great staple crops, the total value would exceed \$300,000,000. Not only should dependable estimates be available for the production and supply of the strictly commercial and marketable surplus seeds, but seed requirements and supply, surplus and deficiency of seed for all field crops should also be estimated. The growing of seed is a highly specialized industry of fundamental importance to agriculture, and is deserving of special service. For the fiscal year 1920 the Bureau has available only \$2,075 for estimating seed production, which will be devoted mainly to estimating clover seed production. The proposed allotment of \$19,150 for this work will enable the Bureau to employ two seed crop specialists to devote their entire time to this project, help pay the travel expenses of field agents in each State where seed are grown commercially, and provide necessary clerks. The proposed allotment is only 6/1,000 of one per cent of the estimated value of commercial seed produced annually,





OIL CROPS.

Cotton Seed, Peanuts, Flaxseed, Castor Beans, Soy Beans, Olives, and other plant products from which vegetable oils are extracted commercially.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage planted.
- (5) Acreage abandoned.
- (6) Condition and forecast of production.
- (7) Loss or damage from insect pests, plant diseases and other causes.
- (8) Acreage harvested.
- (9) Yield per acre.
- (10) Total production.
- (11) Commercial production, i.e., marketable surplus available for oil.
- (12) Grade or quality.
- (13) Stocks on farms.
- (14) Quantity sold or used for oil.
- (15) Prices growers receive.
- (16) Foreign crop situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two oil crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



### Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations, to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Estimate of Appropriation.

| Oil Crops | 1920<br>Allotment | 1921<br>Required for<br>Enlarged<br>Program. | Increase<br>Estimated as<br>Necessary. |
|-----------|-------------------|--|--|
| Lump Fund | \$ .....          | \$15,710                                     | \$15,710                               |
| Statutory |                   |  |  |
| Salaries  | <u>200</u>        | <u>1,500</u>                                 | <u>1,300</u>                           |
| Total     | 200               | 17,210                                       | 17,010                                 |

The estimated value of vegetable oils produced in the United States in 1918 was in excess of one billion dollars and during the war period many requests were received for estimates of oil producing crops. The Bureau has never had the means to estimate these crops, except flaxseed, but they have become so important that regular reports concerning all of them should be issued. Two oil crop specialists should be employed to develop a system of estimating and reporting, to secure the co-operation of growers and manufacturers, to collect data, to co-ordinate the work of the field agent offices with respect to these crops, and to assemble, analyze and summarize the data for publication. The proposed allotment will be expended for county and commercial estimates. The total allotment for estimating these crops would constitute a charge of less than 2/1,000 of one per cent of the estimated value of annual production.









### Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop Specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different States, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the crop reporting board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Value of Crops and Allotment.

|              | 1920<br>Allotment | 1921<br>Required for<br>Program | Increase<br>Estimated as<br>Necessary. |
|--------------|-------------------|---------------------------------|--|
| Forest Crops |                   |                                 |  |
| Lump Fund    | \$.....           | \$15,710                        | \$15,710                               |
| Statutory    | <u>.....</u>      | <u>1,500</u>                    | <u>1,500</u>                           |
| Total        | .....             | 17,210                          | 17,210                                 |

The estimated value of farm forest products alone is about 250 million dollars annually. The Bureau has had no funds with which to estimate these products, but has made a few estimates of the quantity of fire wood consumed on farms. The forest resources of this country are so great and important, and even the farm woodlots are so important and valuable in the farm economy, that systematic and dependable estimates concerning them should be made. The allotment of \$17,210 would enable the Bureau to employ two forest specialists to devote their entire time to this project and supplement the work of the field agents, and provide necessary clerical assistance.

The allotment will be used in making county and commercial estimates. An allotment of \$17,210 would constitute a charge on the estimated value of forest products of about 6/1,000 of one per cent.



NURSERY CROPS.

Objects.

To furnish dependable and timely estimates concerning these crops for:

- (1) The United States.
- (2) Each State.
- (3) Each county.
- (4) Acreage planted to each crop.
- (5) ~~Axes~~ under glass planted of each crop.
- (6) Area or number of plants of each principal type or variety in the field or under glass.
- (7) Condition and probable yield.
- (8) Damage or loss from plant diseases and insect pests.
- (9) Yield per acre or square foot of glass.
- (10) Total production.
- (11) Marketable surplus.
- (12) Grade or quality.
- (13) Prices received by growers.
- (14) Foreign situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

Two nursery crop specialists.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



## Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different states, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the Crop Reporting Board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.





Value of Crop and Allotment.

| Nursery Crop, | 1920<br>Allotment | 1921<br>Required for<br>Program. |
|---------------|-------------------|----------------------------------|
| Lump Fund     | \$.....           | \$15,710                         |
| Statutory     |                   |                                  |
| Salaries      | <u>.....</u>      | <u>2,500</u>                     |
| Total         | .....             | 18,210                           |

The annual value of these crops was 56 million dollars when the last census was taken ten years ago. It must be very much greater now. No attempt has been made to estimate nursery crops, the growing of which has become a highly specialized and important industry, not only as a foundation to the fruit industry, but for reforestation and ornamental plantings in the parks and home grounds of cities and farms. The allotment of \$18,210 to this project will provide for the employment of two nursery crop specialists and their necessary travel expenses, and for clerical assistance, and will enable the Bureau to make county and commercial estimates.

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MISCELLANEOUS CROPS.  
Broom Corn, Hops, Etc.

Objects.

To furnish dependable and timely estimates concerning numerous minor crops, for:

- (1) The United States.
- (2) Each state.
- (3) Each county, where there is a demand for county estimates.
- (4) Acreage planted to each crop.
- (5) Condition and probable yield.
- (6) Damage or loss from plant diseases, and insect pests.
- (7) Yield per acre.
- (8) Total production.
- (9) Marketable surplus.
- (10) Grade or quality.
- (11) Prices received by growers.
- (12) Foreign situation.

Organization.

A field agent, assistant field agent, and clerical assistants, and a corps of voluntary crop reporters in each State reporting to the field agent.

General and special lists of voluntary crop reporters who report directly to the Washington office.

Clerical force at headquarters, part time.



## Function.

Field agents and assistant field agents, with headquarters in each of the States, to travel over states monthly and collect data by personal inspection of crops and interviews with best informed men; to arrange for cooperation with State officials and local organizations; to build up special lists of growers who are interested in each particular crop who will agree to report monthly to them; to collect and compile data by counties; to report monthly their State estimates for each crop to the Bureau in Washington; to publish a State crop report by counties; and keep on file and supply statistical information regarding crops in their States.

Crop specialists to cooperate with and advise field agents regarding means and methods of collecting original data, to coordinate work and results obtained by field agents in the different states, to analyze, summarize, interpret, check up and present results for the United States, and special commercial regions, obtained through field agents in cooperation with others, and to represent the Bureau especially in obtaining the cooperation of organizations of farmers and others, and preparing and arranging for special reports for their benefit. These specialists will also cooperate with the Bureau's Division of Crop Records and Research in analyzing the foreign crop situation and its relation to and effect upon the industry in this country. They will cooperate closely with specialists of other bureaus of the Department of Agriculture and of the State Colleges of Agriculture and Experiment Stations.

The special lists of voluntary reporters in each State reporting monthly to the field agents, will include the best informed men on each crop who can be induced to supply information by schedule, personal interview, telephone or telegraph. They will keep the field agent informed of what has happened and changes in crop conditions in their counties during his absence.

The voluntary crop reporters who report directly to the Bureau in Washington will be made up of general and special lists and the data they supply will be tabulated and summarized by States to supplement and check the State totals reported by field agents.

The clerical force, part time, at the Washington office will tabulate and average the returns from the voluntary crop reporters for the use of the Crop Reporting Board, and check up the lists of reporters, dropping those that cease to report or resign, and arranging for new reporters.



Allotment.

|                       | 1920<br>Allotment | 1921<br>Required for<br>Increased<br>Program | Increase<br>Estimated as<br>Necessary. |
|-----------------------|-------------------|--|--|
| Lump Fund             | \$ 300            | \$6,230                                      | \$5,930                                |
| Statutory<br>Salaries | <u>3,120</u>      | <u>3,120</u>                                 | <u>          </u>                      |
| Total                 | 3,420             | 9,350  | 5,930                                  |

The annual value of these minor crops amounts to many millions of dollars and while they are relatively unimportant they are of great importance to a sufficient number of persons to make estimates of them necessary. The increase asked will barely meet the increased cost of the stationery involved in securing the data and publishing the reports.





CROP RECORDS AND RESEARCH DIVISION.

Crop Reports and Records.

(1) Crop Records:

Objects.

To collect, index and file all obtainable published and unpublished, official and un-official, crop and live stock statistics and records, for the United States and for foreign countries, in order that the Department may have accessible at all times the most complete collection of agricultural statistical data possible to assemble.

Organization and function.

Chief of Division, general supervision. Librarian, immediate supervision and correspondence. Clerical force for indexing and filing.

Allotment.

|          | Statutory  | General<br>Expense. | Total.       |
|----------|------------|---------------------|--------------|
| 1920     | \$2,795    | \$ 720              | \$3,515      |
| Increase | <u>690</u> | <u>1,565</u>        | <u>2,255</u> |
| 1921     | \$3,485    | \$2,285             | \$5,770      |

The Bureau already has one of the most complete collections of statistical publications relating to agriculture in existence. Additional funds are needed for equipment and record clerks. This collection is accessible to employees of all branches of the Government and to private investigators under proper restrictions.

(2) Translating and Tabulating Foreign Statistics.

Objects.

To translate into American units, tabulate and record crop and live stock statistics and estimates of foreign countries.

Organization and function.

Chief of Division, general supervision. Translator, immediate supervision. Assistant translators and clerks.



Allotment.

|          | Statutory  | General<br>Expense. | Total        |
|----------|------------|---------------------|--------------|
| 1920     | \$2,845    | \$1,150             | \$3,995      |
| Increase | <u>720</u> | <u>2,490</u>        | <u>3,210</u> |
| 1921     | \$3,565    | \$3,640             | \$7,205      |

It is important that all foreign crop and live stock statistics relating to agriculture be translated into American units on a uniform and correct basis, using official conversion equivalents, and that the data be recorded in tabular form, uniform for all countries, and that these foreign tables be complete and kept up to date. The statistics of most of the important foreign countries have been translated and recorded, and it is desired to complete the work for all countries. For this purpose an additional translator and clerical assistance will be required.

(3) International Institute of Agriculture Reports.

Objects.

To prepare cablegram and radiogram reports of crop and live stock estimates of the United States for transmission to the International Institute of Agriculture at Rome, and upon receipt of cabled reports from the Institute to translate and prepare summaries of them for issuance to the press.

Organization.

Chief of Division. 1 clerk, part time.

Allotment.

|          | Statutory  | General<br>Expenses. | Total        |
|----------|------------|----------------------|--------------|
| 1920     | \$450      | \$470                | \$920        |
| Increase | <u>250</u> | <u>1,005</u>         | <u>1,255</u> |
| 1921     | 700        | 1,475                | 2,175        |

More time of a clerk will be required for this work in future. Great care must be exercised in coding and decoding these cabled reports which deal with large aggregates and often are quite long. The crop reports of the United States as an adhering country are communicated to the Institute, which in turn transmits to this country a summary of the crop and live stock estimates of the principal agricultural countries of the world. It is planned to give greater publicity to these reports as soon as the necessary funds are provided.



Crop Research.

(1) Statistical Appendix to the Yearbook.

Objects.

To prepare for publication as a statistical appendix to the Yearbook of the Department a permanent record in convenient form of the essential crop and live stock statistics of the United States and foreign countries.

Organization.

Chief of Division. Statistical clerks, part time.

Allotment.

|          | Statutory  | General<br>Expenses. | Total        |
|----------|------------|----------------------|--------------|
| 1920     | \$6,170    | \$640                | \$6,810      |
| Increase | <u>700</u> | <u>500</u>           | <u>1,200</u> |
| 1921     | \$6,870    | \$1,140              | \$8,010      |

The chief value of the statistical appendix to the Yearbook is that it is a permanent, continuing record of the world agriculture, comparable one year with another, brought up to the latest date and in form for ready reference. Great care is necessary to insure correctness. A moderate increase in the allotment to this sub-project is necessary.

(2) Press Statistical Notes.

Objects.

To prepare agricultural statistical notes for issuance to the press by the Office of Information.

Organization.

Chief of Division. Statistical Scientist, part time. Clerk, part time.

Allotment.

|          | Statutory    | General<br>Expenses. | Total        |
|----------|--------------|----------------------|--------------|
| 1920     | \$ 600       | \$ 315               | \$ 915       |
| Increase | <u>1,000</u> | <u>185</u>           | <u>1,185</u> |
| 1921     | \$1,600      | \$500                | \$2,100      |



Many items of information of value and interest relating to the statistics of agriculture in the United States and foreign countries are available in the current work of the Bureau, for which there is no space in the Monthly Crop Reporter, or which are inappropriate for publication therein, or which would lose in timely interest if withheld for publication in the Reporter, and these items can readily be prepared and turned over to the Office of Information for issuance to the press or for publication in the Weekly News Letter. Much of this material has not been made available to the public in the past for lack of sufficient clerical force to handle it. A small increase in the allotment to this sub-project is therefore recommended.

(3) Statistical Tables and Correspondence.

Objects.

To prepare correspondence and special statistical tables for furnishing information in response to oral and written requests by government officials, private individuals, business firms, and others.

Organization.

Chief of Division. Statistical Scientist, part time. Statistical Clerks, part time. Stenographers and typwriters, part time.

Allotment.

|          | Statutory    | General<br>Expense | Total         |
|----------|--------------|--------------------|---------------|
| 1920     | \$6,560      | \$1,099            | \$7,659       |
| Increase | <u>1,660</u> | <u>8,901</u>       | <u>10,561</u> |
| 1921     | 8,220        | 10,000             | 18,220        |

This section handles an increasingly heavy correspondence calling for statistical information of every conceivable description and necessitating the compilation and preparation of special tables. Copies of all tables of general interest or which involve much time and research are filed and indexed for future use. The present force of the section is entirely inadequate and should be more than doubled to enable the Bureau to meet the steadily growing demand for information. The enlarged program will also greatly increase the work under this sub-project.





(4) Field Agents Weekly Crop Notes.

Objects.

To prepare for publication condensed summaries of field agents weekly crop notes.

Organization.

Chief of Division. Statistical clerks, part time.  
Stenographer, part time.

Allotment.

|          | Statutory  | General<br>Expense. | Total     |
|----------|------------|---------------------|-----------|
| 1920     | \$450      | \$450               | \$900     |
| Increase | <u>...</u> | <u>70</u>           | <u>70</u> |
| 1921     | 450        | 520                 | 970       |

The weekly crop notes of field agents are designed to keep the Department informed of changes in crop and live stock conditions and prospects, farm labor, seed and fertilizer situation, progress of farm work, or any noteworthy movement or occurrence affecting agriculture, from week to week. To economize the time of administrative officials and specialists it is necessary to condense, arrange and summarize these notes, which requires part of the time of one clerk, a stenographer, and the multigraph section. They were first issued during the war for the confidential information of the Secretary and Bureau Chiefs, and since the war their circulation is being rapidly extended. The slight increase indicated is for stationery and miscellaneous supplies.

(5) Foreign Crop Notes.

Objects.

To prepare for publication semi-monthly resumés of foreign crop conditions.

Organization.

Chief of Division. Statistical clerks, part time;  
stenographer, part time.



Allotment.

|          | Statutory         | General<br>Expense. | Total     |
|----------|-------------------|---------------------|-----------|
| 1920     | \$450             | \$450               | \$900     |
| Increase | <u>          </u> | <u>70</u>           | <u>70</u> |
| 1921     | 450               | 520                 | 970       |

The Semi-Monthly Reports on Foreign Crops and Live-stock contain current reports from official and un-official but dependable sources and are compiled and issued for the information of the Department officials and the public. The information contained in them will be of special interest and value during the reconstruction period following the war.

(6) Crop and Livestock Statistics.

Objects.

To compile, tabulate, analyze, correlate, summarize, and interpret crop and live stock statistics of the United States and foreign countries, and to present results by means of text, tables, maps, charts, and graphs.

Organization.

Chief of Division. Project leader-- statistical scientist, part time. 1 Statistical Scientist, full time. 2 Statistical Clerks, full time. Tabulators and clerks.

Allotment.

|          | Statutory    | General<br>Expense. | Total         |
|----------|--------------|---------------------|---------------|
| 1920     | \$4,195      | \$1,155             | \$5,350       |
| Increase | <u>3,320</u> | <u>3,845</u>        | <u>12,165</u> |
| 1921     | 7,515        | 10,000              | 17,515        |

A vast amount of agricultural data is on file in the Bureau archives which is of great economic value but which cannot be made available to the public for want of adequate funds to employ competent men with the necessary technical training and experience to analyze and interpret the data and so present the data in graphic form as to make their significance readily apparent. This project is of fundamental importance in converting the undigested mass of statistical data relating to world agriculture into such a form as to be of practical value. The work calls for the best statistical training and ability and the present force should be more than doubled.



(7) Surplus and Deficiency of American Agriculture.

Objects.

To conduct a series of analytical studies of the statistics of a single agricultural product or group of products, comparing the production by States and for the United States with supply and consumption for a long series of years, in relation to foreign supply and demand.

Organization.

Chief of Division. Project leader-- statistical scientist, part time. 1 Statistical Scientist, part time. 2 Statistical Clerks; 4 Stenographers and typewriters.

Allotment.

|          | Statutory    | General<br>Expense. | Total        |
|----------|--------------|---------------------|--------------|
| 1920     | \$3,145      | \$ 435              | \$3,580      |
| Increase | <u>1,660</u> | <u>3,565</u>        | <u>5,225</u> |
|          | 4,805        | 4,000               | 8,805        |

The purpose of this project is to show the relation of crop and live stock production to the consumption requirements of this country, and to net important requirements in other countries, and whether the production of a particular crop or class of live stock may profitably be increased or decreased, the relation between present and prospective supply and demand, and the trend of prices. The data and results to be made available under this project are of fundamental importance in formulating intelligently programs of production and marketing on a country wide basis. The present allotment of funds and force is inadequate and should be more than doubled to do this work satisfactorily.

(8) Agricultural Development in Foreign Countries.

Objects.

To conduct a series of analytical studies, each on a single important foreign country or group of countries; chiefly statistical summaries of crop acreages and production, and numbers of farm animals, surplus and deficiency of supply in relation to consumption, and such collateral facts as quantity of fertilizer, seed, labor, yields per acre, and similar information.





Organization.

Chief of Division. Project leader-- statistical scientist, part time. Statistical clerk, part time. Stenographer, part time.

Allotment.

|          | Statutory    | General<br>Expense. | Total.       |
|----------|--------------|---------------------|--------------|
| 1920     | \$ 500       | .....               | \$ 500       |
| Increase | <u>1,660</u> | <u>\$1,500</u>      | <u>3,160</u> |
| 1921     | 2,160        | 1,500               | 3,660        |

This project is designed to supply dependable information regarding agricultural production and requirements in each of the foreign countries with which the United States has trade relations or which compete with the United States in the production and export of farm products. Such information is of value not only to government officials but to State colleges of agriculture and to manufacturers, farmers, and commercial organizations of this country. An insistent demand for data of this character developed during the war and will probably continue. Double the present allotment is required to carry on these studies effectively.

(9) World Production and Supply.

Objects.

To conduct a series of analytical studies and reports on the statistics of a single product or group of products, in the nature of a world balance sheet.

Organization.

Chief of Division. Project leader-- Statistical scientist, part time. 1 statistical scientist, part time. Statistical clerks, part time.

Allotment.

|          | Statutory    | General<br>Expense | Total        |
|----------|--------------|--------------------|--------------|
| 1920     | \$ 500       | \$ 100             | \$ 600       |
| Increase | <u>1,620</u> | <u>3,000</u>       | <u>4,620</u> |
| 1921     | 2,120        | 3,100              | 5,220        |



Periodical statements of world supply and demand should be prepared and published, showing for every important country and for each important crop and class of live stock, the acreage planted and harvested, the condition, yield or prospective yield, total production, number of animals, normal consumption, imports and exports, and probable surplus or deficiency. Such statements, in the nature of world balance sheets of agricultural products, will serve as the basis of planting and marketing programs. Several such statements were prepared during the war period and should form a permanent feature of the program of work of the Bureau of Crop Estimates. The present force of the Bureau is insufficient and the allotment for this project should be increased to \$10,000.

(10) Economic Agricultural Data.

Objects.

To collect, compile, analyze, correlate, summarize, interpret and present by texts, tables, maps, charts and graphs, data on wages and supply of farm labor, value of farm lands, prices farmers receive for their products and prices they pay for equipment, machinery, and supplies, and other essential data relating to agriculture as an industry.

Organization.

Chief of Division. Project leader-- statistical scientist. 1 statistical scientist. 2 statistical clerks; stenographers and typewriters, part time.

Allotment.

|          | Statutory    | General<br>Expense | Total         |
|----------|--------------|--------------------|---------------|
| 1920     | \$ 300       | \$ 100             | \$ 400        |
| Increase | <u>1,660</u> | <u>10,000</u>      | <u>11,660</u> |
| 1921     | 1,960        | 10,100             | 12,060        |

Much material of this kind has been collected by the Bureau in the past, but lack of force and funds made it impracticable to properly correlate and interpret the data collected, or to collect data regarding many phases of the business of farming requested by specialists in different branches of the Department, by the State Colleges of Agriculture, and by private investigators and business firms. The Bureau of Crop Estimates is constantly receiving requests by specialists in other branches of the Department to make special inquiries through its field agents and voluntary reporters for information on a country wide basis needed as a foundation for their work. Data of this character



have an important bearing on farm management problems and country life improvement, and are essential to a clear and intelligent understanding of much of the unrest, dissatisfaction, and demands of farmers and their organizations. Such information, also, is essential to wise legislation to promote agriculture as a vocation and a business, and is of special interest to all farmers. The present inadequate allotment should be increased to not less than \$15,000.

(11) Publications.

Objects.

To prepare Yearbook articles, bulletins, monographs, articles, and notes for the Weekly Crop Reporter, and Weekly News Letter, and press material, maps, charts, and graphs, not provided for in other projects.

Organization.

Chief of Division. Project leader-- statistical scientist, part time. 1 statistical scientist. Stenographer and typewriter, part time.

Allotment.

|          | Statutory    | General<br>Expense | Total.       |
|----------|--------------|--------------------|--------------|
| 1920     | \$1,000      | \$ 100             | \$1,100      |
| Increase | <u>1,660</u> | <u>4,520</u>       | <u>6,180</u> |
| 1921     | 2,660        | 4,620              | 7,280        |

This project is designed to set forth in clear and readily understandable form the statistics of crop and live stock production in the United States and foreign countries. Considerable material of much value and economic importance is contained in the records and data on file in the Bureau, which is not available to the public because it has not been published and can not be published in proper form with the present allotment of funds. Obviously an economic waste is involved in collecting and filing valuable information at considerable expense to the government without going one step farther and publishing the information for the benefit of the public. The present allotment should be doubled.

